CLAIM(S)

1. A torque sensitive sanitary diaphragm valve comprising:

(a) a housing having

a flow housing area with a shape for the transfer of solution through the flow housing area and

a stem housing area with a first opening attached to the flow housing area and a second opening threaded;

(b) a stem with

a top,

a middle counter-threaded for the stem housing's second opening, and

a bottom shaped to mate with the shape of the flow housing area;

(c) a handle;

(d) a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

(e) a slipping mechanism located between the handle and the stem.

2. A torque sensitive sanitary diaphragm valve comprising:

(a) a housing having

a flow housing area with a shape for the transfer of solution through the flow housing area and

a stem housing area with a first opening attached to the flow housing area,

a second opening, and

a handle attachment area threaded;

(b) a stem with

a top,

a middle enclosed in the stem housing area, and

a bottom shaped to mate with the shape of the flow housing area;

(c) a handle counter-threaded for attachment to the stem housing attachment area and affixed to the stem allowing the handle to pivot without rotation of the stem;

(d) a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

(e) a slipping mechanism located either between the stem housing and the stem housing's threaded handle attachment area or between the handle and the handle's counter-threaded stem housing attachment area.

3. A torque sensitive sanitary diaphragm valve comprising

(a) a housing having

a flow housing area with a shape for the transfer of solution through the flow housing area and

a stem housing area with

a first opening attached to the flow housing area

a second opening, and

a handle attachment area;

(b) a stem with

a top and a middle both threaded as an area for attachment of the handle and

a bottom shaped to mate with the shape of the flow housing area;

(c) a handle counter-threaded for attachment to the threaded stem's handle attachment area and attached to the stem housing allowing the handle to pivot without rotation of the stem housing.

(d) a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

(e) a slipping mechanism located between the handle and the stem.

4. A pharmaceutical valve for use with biological and chemical transfer equipment having a housing with a flowing housing area having a shape for the transfer of a solution through the flow housing area, and a stem housing area having a first opening attached to the flow housing area and a second opening threaded for vertical motion within the stem housing area, the pharmaceutical valve comprising:

a stem with

a top,

a middle counter-threaded for the stem housing's second opening, and

a bottom shaped to mate with the shape of the flow housing area;

a handle;

a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

a slipping mechanism located between the handle and the stem.

5. A pharmaceutical valve for use with biological and chemical transfer equipment having a housing with a flowing housing area having a shape for the transfer of a solution through the flow housing area, and a stem housing area having a first opening attached to the flow housing

area and a second opening threaded for vertical motion within the stem housing area, the pharmaceutical valve comprising:

a stem with

a top,

a middle counter-threaded for the stem housing's second opening, and

a bottom shaped to mate with the shape of the flow housing area;

a handle counter-threaded for attachment to the stem housing attachment area and affixed to the stem allowing the handle to pivot without rotation of the stem;

a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

a slipping mechanism located either between the stem housing and the stem housing's threaded handle attachment area or between the handle and the handle's counter-threaded stem housing attachment area.

6. A pharmaceutical valve for use with biological and chemical transfer equipment having a housing with a flowing housing area having a shape for the transfer of a solution through the flow housing area, and a stem housing area having a first opening attached to the flow housing area and a second opening having a handle attachment area for vertical motion within the stem housing area, the pharmaceutical valve comprising:

a stem with

a top and a middle both threaded as an area for attachment of the handle, and

a bottom shaped to mate with the shape of the flow housing area;

a handle counter-threaded for attachment to the threaded stem's handle attachment area and attached to the stem housing allowing the handle to pivot without rotation of the stem housing;

a diaphragm with a chemical contact side and a stem contact side located in the first opening of the stem housing between the stem and the flow housing area; and

a slipping mechanism located between the handle and the stem.

7. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical valves according to claim 1.

8. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical valves according to claim 2.

9. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical valves according to claim 3.

10. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical diaphragm valves according to claim 4.

11. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical valves according to claim 5.

12. A method of preventing the flow of fluids in equipment making biological or chemical therapeutics using pharmaceutical valves according to claim 6.